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Application Serial Number: 10725076

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ENTERED

<110> APPLICANT: ZOLLER, MARK
 LI, XIAODONG .
 STASZEWSKI, LENA
 O'CONNELL, SHAWN
 ZOZULYA, SERGEY
 ADLER, JON
 XU, HONG
 ECHEVERRI, FERNANDO
 <120> TITLE OF INVENTION: T1R HETERO-OLIGOMERIC TASTE RECEPTORS AND CELL
 LINES
 THAT EXPRESS SAID RECEPTORS AND USE THEREOF FOR
 IDENTIFICATION OF TASTE COMPOUNDS
 <130> FILE REFERENCE: 078003-0291566

 <140> CURRENT APPLICATION NUMBER:10725076
 <141> CURRENT FILING DATE:2003-12-02

 <150> PRIOR APPLICATION NUMBER: US/10/179,373
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 <150> PRIOR APPLICATION NUMBER: 60/300,434
 <151> PRIOR FILING DATE: 2001-06-26
 <150> PRIOR APPLICATION NUMBER: 60/304,749
 <151> PRIOR FILING DATE: 2001-07-13
 <150> PRIOR APPLICATION NUMBER: 60/310,493
 <151> PRIOR FILING DATE: 2001-08-08
 <150> PRIOR APPLICATION NUMBER: 60/331,771
 <151> PRIOR FILING DATE: 2001-11-21
 <150> PRIOR APPLICATION NUMBER: 60/339,472
 <151> PRIOR FILING DATE: 2001-12-14
 <150> PRIOR APPLICATION NUMBER: 60/372,090
 <151> PRIOR FILING DATE: 2002-04-15
 <150> PRIOR APPLICATION NUMBER: 60/374,143
 <151> PRIOR FILING DATE: 2002-04-22
 <160> NUMBER OF SEQ ID NOS: 19
 <170> SOFTWARE: PatentIn Ver. 2.1

 <210> SEQ ID NO 1
 <211> LENGTH: 5
 <212> TYPE: PRT
 <213> ORGANISM: Artificial Sequence
 <220> FEATURE:
 <223> OTHER INFORMATION: Description of Artificial Sequence: PDZIP
 sequence
 <400> SEQUENCE: 1
 Ser Val Ser Thr Trp
 1 5

 <210> SEQ ID NO 2
 <211> LENGTH: 14
 <212> TYPE: PRT
 <213> ORGANISM: Artificial Sequence
 <220> FEATURE:
 <223> OTHER INFORMATION: Description of Artificial Sequence: Consensus
 sequence
 <220> FEATURE:
 <221> NAME/KEY: MOD_RES
 <222> LOCATION: (1)
 <223> OTHER INFORMATION: Thr or Arg
 <220> FEATURE:
 <221> NAME/KEY: MOD_RES
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<223> OTHER INFORMATION: Phe or Leu
 <220> FEATURE:
 <221> NAME/KEY: MOD_RES
 <222> LOCATION: (4)
 <223> OTHER INFORMATION: Arg, Gln or Pro
 <220> FEATURE:
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 <222> LOCATION: (6)
 <223> OTHER INFORMATION: Arg or Thr
 <220> FEATURE:
 <221> NAME/KEY: MOD_RES
 <222> LOCATION: (7)
 <223> OTHER INFORMATION: Ser, Pro or Val
 <220> FEATURE:
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 <222> LOCATION: (8)
 <223> OTHER INFORMATION: Val, Glu, Arg, Lys or Thr
 <220> FEATURE:
 <221> NAME/KEY: MOD_RES
 <222> LOCATION: (11)
 <223> OTHER INFORMATION: Ala or Glu
 <220> FEATURE:
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 <222> LOCATION: (12)
 <223> OTHER INFORMATION: Trp or Leu
 <220> FEATURE:
 <221> NAME/KEY: MOD_RES
 <222> LOCATION: (13)
 <223> OTHER INFORMATION: Arg, His or Gly
 <400> SEQUENCE: 2
 Xaa Cys Xaa Xaa Arg Xaa Xaa Xaa Phe Leu Xaa Xaa Xaa Glu
 1 5 10

<210> SEQ ID NO 3
 <211> LENGTH: 15
 <212> TYPE: PRT
 <213> ORGANISM: Artificial Sequence
 <220> FEATURE:
 <223> OTHER INFORMATION: Description of Artificial Sequence: Consensus
 sequence
 <220> FEATURE:
 <221> NAME/KEY: MOD_RES
 <222> LOCATION: (1)
 <223> OTHER INFORMATION: Leu or Gln
 <220> FEATURE:
 <221> NAME/KEY: MOD_RES
 <222> LOCATION: (3)
 <223> OTHER INFORMATION: Glu, Gly or Thr
 <220> FEATURE:
 <221> NAME/KEY: MOD_RES
 <222> LOCATION: (4)
 <223> OTHER INFORMATION: Asn, Arg or Cys
 <220> FEATURE:
 <221> NAME/KEY: MOD_RES
 <222> LOCATION: (7)
 <223> OTHER INFORMATION: Arg or Glu
 <220> FEATURE:
 <221> NAME/KEY: MOD_RES
 <222> LOCATION: (9)
 <223> OTHER INFORMATION: Arg or Lys
 <220> FEATURE:

<221> NAME/KEY: MOD_RES
 <222> LOCATION: (10)
 <223> OTHER INFORMATION: Cys, Gly or Phe
 <220> FEATURE:
 <221> NAME/KEY: MOD_RES
 <222> LOCATION: (11)
 <223> OTHER INFORMATION: Val, Leu or Ile
 <220> FEATURE:
 <221> NAME/KEY: MOD_RES
 <222> LOCATION: (13)
 <223> OTHER INFORMATION: Phe or Leu
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 <221> NAME/KEY: MOD_RES
 <222> LOCATION: (14)
 <223> OTHER INFORMATION: Ala or Ser
 <220> FEATURE:
 <221> NAME/KEY: MOD_RES
 <222> LOCATION: (15)
 <223> OTHER INFORMATION: Met or Leu
 <400> SEQUENCE: 3

Xaa	Pro	Xaa	Xaa	Tyr	Asn	Xaa	Ala	Xaa	Xaa	Xaa	Thr	Xaa	Xaa	Xaa
1				5				10						15

<210> SEQ ID NO 4
 <211> LENGTH: 858
 <212> TYPE: PRT
 <213> ORGANISM: Rattus sp.
 <400> SEQUENCE: 4

Met	Pro	Gly	Leu	Ala	Ile	Leu	Gly	Leu	Ser	Leu	Ala	Ala	Phe	Leu	Glu
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Leu	Gly	Met	Gly	Ser	Ser	Leu	Cys	Leu	Ser	Gln	Gln	Phe	Lys	Ala	Gln
			20				25					30			
Gly	Asp	Tyr	Ile	Leu	Gly	Gly	Leu	Phe	Pro	Leu	Gly	Thr	Thr	Glu	Glu
		35				40					45				
Ala	Thr	Leu	Asn	Gln	Arg	Thr	Gln	Pro	Asn	Gly	Ile	Leu	Cys	Thr	Arg
	50				55				60						
Phe	Ser	Pro	Leu	Gly	Leu	Phe	Leu	Ala	Met	Ala	Met	Lys	Met	Ala	Val
65			70				75							80	
Glu	Glu	Ile	Asn	Asn	Gly	Ser	Ala	Leu	Leu	Pro	Gly	Leu	Arg	Leu	Gly
			85				90						95		
Tyr	Asp	Leu	Phe	Asp	Thr	Cys	Ser	Glu	Pro	Val	Val	Thr	Met	Lys	Pro
		100				105						110			
Ser	Leu	Met	Phe	Met	Ala	Lys	Val	Gly	Ser	Gln	Ser	Ile	Ala	Ala	Tyr
	115				120						125				
Cys	Asn	Tyr	Thr	Gln	Tyr	Gln	Pro	Arg	Val	Leu	Ala	Val	Ile	Gly	Pro
	130			135						140					
His	Ser	Ser	Glu	Leu	Ala	Leu	Ile	Thr	Gly	Lys	Phe	Phe	Ser	Phe	Phe
145			150						155						160
Leu	Met	Pro	Gln	Val	Ser	Tyr	Ser	Ala	Ser	Met	Asp	Arg	Leu	Ser	Asp
			165					170					175		
Arg	Glu	Thr	Phe	Pro	Ser	Phe	Phe	Arg	Thr	Val	Pro	Ser	Asp	Arg	Val
		180				185						190			
Gln	Leu	Gln	Ala	Val	Val	Thr	Leu	Leu	Gln	Asn	Phe	Ser	Trp	Asn	Trp
	195					200					205				
Val	Ala	Ala	Leu	Gly	Ser	Asp	Asp	Tyr	Gly	Arg	Glu	Gly	Leu	Ser	
	210				215					220					
Ile	Phe	Ser	Gly	Leu	Ala	Asn	Ser	Arg	Gly	Ile	Cys	Ile	Ala	His	Glu
225				230					235					240	
Gly	Leu	Val	Pro	Gln	His	Asp	Thr	Ser	Gly	Gln	Gln	Leu	Gly	Lys	Val
			245					250					255		
Val	Asp	Val	Leu	Arg	Gln	Val	Asn	Gln	Ser	Lys	Val	Gln	Val	Val	Val

			260					265					270		
Leu	Phe	Ala	Ser	Ala	Arg	Ala	Val	Tyr	Ser	Leu	Phe	Ser	Tyr	Ser	Ile
		275					280					285			
Leu	His	Asp	Leu	Ser	Pro	Lys	Val	Trp	Val	Ala	Ser	Glu	Ser	Trp	Leu
	290					295					300				
Thr	Ser	Asp	Leu	Val	Met	Thr	Leu	Pro	Asn	Ile	Ala	Arg	Val	Gly	Thr
305					310					315					320
Val	Leu	Gly	Phe	Leu	Gln	Arg	Gly	Ala	Leu	Leu	Pro	Glu	Phe	Ser	His
				325					330					335	
Tyr	Val	Glu	Thr	Arg	Leu	Ala	Leu	Ala	Ala	Asp	Pro	Thr	Phe	Cys	Ala
			340					345					350		
Ser	Leu	Lys	Ala	Glu	Leu	Asp	Leu	Glu	Glu	Arg	Val	Met	Gly	Pro	Arg
		355					360					365			
Cys	Ser	Gln	Cys	Asp	Tyr	Ile	Met	Leu	Gln	Asn	Leu	Ser	Ser	Gly	Leu
	370					375					380				
Met	Gln	Asn	Leu	Ser	Ala	Gly	Gln	Leu	His	His	Gln	Ile	Phe	Ala	Thr
385					390					395					400
Tyr	Ala	Ala	Val	Tyr	Ser	Val	Ala	Gln	Ala	Leu	His	Asn	Thr	Leu	Gln
				405					410					415	
Cys	Asn	Val	Ser	His	Cys	His	Thr	Ser	Glu	Pro	Val	Gln	Pro	Trp	Gln
			420					425					430		
Leu	Leu	Glu	Asn	Met	Tyr	Asn	Met	Ser	Phe	Arg	Ala	Arg	Asp	Leu	Thr
		435					440					445			
Leu	Gln	Phe	Asp	Ala	Lys	Gly	Ser	Val	Asp	Met	Glu	Tyr	Asp	Leu	Lys
	450					455					460				
Met	Trp	Val	Trp	Gln	Ser	Pro	Thr	Pro	Val	Leu	His	Thr	Val	Gly	Thr
465					470					475					480
Phe	Asn	Gly	Thr	Leu	Gln	Leu	Gln	His	Ser	Lys	Met	Tyr	Trp	Pro	Gly
				485					490					495	
Asn	Gln	Val	Pro	Val	Ser	Gln	Cys	Ser	Arg	Gln	Cys	Lys	Asp	Gly	Gln
			500					505					510		
Val	Arg	Arg	Val	Lys	Gly	Phe	His	Ser	Cys	Cys	Tyr	Asp	Cys	Val	Asp
		515					520					525			
Cys	Lys	Ala	Gly	Ser	Tyr	Arg	Lys	His	Pro	Asp	Asp	Phe	Thr	Cys	Thr
	530					535					540				
Pro	Cys	Gly	Lys	Asp	Gln	Trp	Ser	Pro	Glu	Lys	Ser	Thr	Thr	Cys	Leu
545					550					555					560
Pro	Arg	Arg	Pro	Lys	Phe	Leu	Ala	Trp	Gly	Glu	Pro	Ala	Val	Leu	Ser
				565					570					575	
Leu	Leu	Leu	Leu	Leu	Cys	Leu	Val	Leu	Gly	Leu	Thr	Leu	Ala	Ala	Leu
				580				585					590		
Gly	Leu	Phe	Val	His	Tyr	Trp	Asp	Ser	Pro	Leu	Val	Gln	Ala	Ser	Gly
		595					600					605			
Gly	Ser	Leu	Phe	Cys	Phe	Gly	Leu	Ile	Cys	Leu	Gly	Leu	Phe	Cys	Leu

Thr	Phe	Leu	Val	Gln	Ser	Gln	Pro	Gly	Arg	Tyr	Asn	Arg	Ala	Arg	Gly
		755					760					765			
Leu	Thr	Phe	Ala	Met	Leu	Ala	Tyr	Phe	Ile	Ile	Trp	Val	Ser	Phe	Val
	770					775					780				
Pro	Leu	Leu	Ala	Asn	Val	Gln	Val	Ala	Tyr	Gln	Pro	Ala	Val	Gln	Met
785					790					795					800
Gly	Ala	Ile	Leu	Phe	Cys	Ala	Leu	Gly	Ile	Leu	Ala	Thr	Phe	His	Leu
				805					810					815	
Pro	Lys	Cys	Tyr	Val	Leu	Leu	Trp	Leu	Pro	Glu	Leu	Asn	Thr	Gln	Glu
			820					825					830		
Phe	Phe	Leu	Gly	Arg	Ser	Pro	Lys	Glu	Ala	Ser	Asp	Gly	Asn	Ser	Gly
		835					840					845			
Ser	Ser	Glu	Ala	Thr	Arg	Gly	His	Ser	Glu						
		850				855									

<210> SEQ ID NO 5

<211> LENGTH: 841

<212> TYPE: PRT

<213> ORGANISM: Homo sapiens

<400> SEQUENCE: 5

Met	Leu	Leu	Cys	Thr	Ala	Arg	Leu	Val	Gly	Leu	Gln	Leu	Leu	Ile	Ser
1				5					10					15	
Cys	Cys	Trp	Ala	Phe	Ala	Cys	His	Ser	Thr	Glu	Ser	Ser	Pro	Asp	Phe
			20					25					30		
Thr	Leu	Pro	Gly	Asp	Tyr	Leu	Leu	Ala	Gly	Leu	Phe	Pro	Leu	His	Ser
		35					40					45			
Gly	Cys	Leu	Gln	Val	Arg	His	Arg	Pro	Glu	Val	Thr	Leu	Cys	Asp	Arg
	50					55					60				
Ser	Cys	Ser	Phe	Asn	Glu	His	Gly	Tyr	His	Leu	Phe	Gln	Ala	Met	Arg
65				70						75					80
Leu	Gly	Val	Glu	Glu	Ile	Asn	Asn	Ser	Thr	Ala	Leu	Leu	Pro	Asn	Ile
				85					90					95	
Thr	Leu	Gly	Tyr	Gln	Leu	Tyr	Asp	Val	Cys	Ser	Asp	Ser	Ala	Asn	Val
		100					105						110		
Tyr	Ala	Thr	Leu	Arg	Val	Leu	Ser	Leu	Pro	Gly	Gln	His	His	Ile	Glu
		115					120					125			
Leu	Gln	Gly	Asp	Leu	Leu	His	Tyr	Ser	Pro	Thr	Val	Leu	Ala	Val	Ile
	130					135					140				
Gly	Pro	Asp	Ser	Thr	Asn	Arg	Ala	Ala	Thr	Thr	Ala	Ala	Leu	Leu	Ser
145					150					155					160
Pro	Phe	Leu	Val	Pro	Met	Ile	Ser	Tyr	Ala	Ala	Ser	Ser	Glu	Thr	Leu
				165				170						175	
Ser	Val	Lys	Arg	Gln	Tyr	Pro	Ser	Phe	Leu	Arg	Thr	Ile	Pro	Asn	Asp
			180					185					190		
Lys	Tyr	Gln	Val	Glu	Thr	Met	Val	Leu	Leu	Leu	Gln	Lys	Phe	Gly	Trp
	195						200					205			
Thr	Trp	Ile	Ser	Leu	Val	Gly	Ser	Ser	Asp	Asp	Tyr	Gly	Gln	Leu	Gly
	210					215					220				
Val	Gln	Ala	Leu	Glu	Asn	Gln	Ala	Thr	Gly	Gln	Gly	Ile	Cys	Ile	Ala
225					230					235					240
Phe	Lys	Asp	Ile	Met	Pro	Phe	Ser	Ala	Gln	Val	Gly	Asp	Glu	Arg	Met
				245					250					255	
Gln	Cys	Leu	Met	Arg	His	Leu	Ala	Gln	Ala	Gly	Ala	Thr	Val	Val	Val
			260					265					270		
Val	Phe	Ser	Ser	Arg	Gln	Leu	Ala	Arg	Val	Phe	Phe	Glu	Ser	Val	Val
	275						280					285			
Leu	Thr	Asn	Leu	Thr	Gly	Lys	Val	Trp	Val	Ala	Ser	Glu	Ala	Trp	Ala
	290					295					300				
Leu	Ser	Arg	His	Ile	Thr	Gly	Val	Pro	Gly	Ile	Gln	Arg	Ile	Gly	Met
305					310					315					320
Val	Leu	Gly	Val	Ala	Ile	Gln	Lys	Arg	Ala	Val	Pro	Gly	Leu	Lys	Ala